

XVC-S+ Sub Arc Welding View Camera

Better Images. Better Decisions. Better Process Control.



The XVC-S+ viewing camera allows the welding process to be viewed away from the immediate weld area, providing safe, noise free, real-time views during standard and high welding power conditions. Featuring a rugged housing, crystal clear images, single or dual crosshairs, adjustable field of view and image recording and playback, the XVC-S+ is the only camera you will ever need for manual seam alignment, tool adjustment and process validation in sub-arc welding applications.

Workforce demands, government regulations, changing business practices, and increasing environmental awareness are driving the manufacturing environment to be quieter, cleaner, healthier, safer and “friendlier” for workers. The XVC-S+ viewing camera allows the welding process to be viewed safely from the ground level and assists the operator during setup to set the wire length and torch position, as well as make corrective adjustments to the welding process “on the fly”, increasing productivity with more “arc on” time, and less operator machine stops.

Red-D-Arc **Welderentals**, an Airgas company, rents and sells welding and weld-positioning equipment - around the world.

XVC-S+ Sub Arc Welding View Camera

Benefits

Reduced set up time - Better images reduce the time required to set up the weld tool and materials

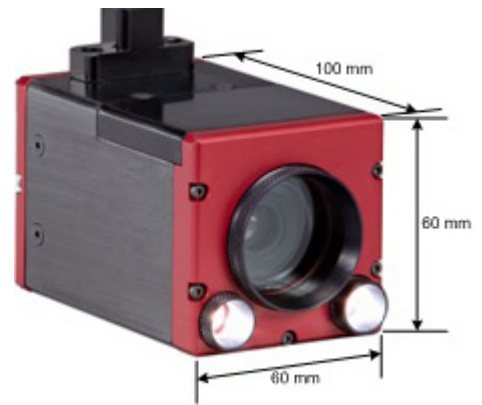
Operational productivity - Allows operator to make corrective adjustments to the welding process "on the fly"

Run time productivity - Reduces scrap and rework, mitigating profit loss from weld failures in the field

Troubleshooting - Provides the ability to verify that the weld process is functioning correctly and identifies the source of any potential problems

Health and safety - Provides the means to remove the operator from the direct weld area, providing a quieter, cleaner, healthier and safer work environment

Video recording - Provides ability to record, store and playback vital welding processes off line for quality assurance monitoring and process verification



Specifications

HMI Console

Input Power:	100 - 240 VAC, 2 A, 50 - 60 Hz
Display:	15" Flat panel display
Computer:	PC running Windows® embedded operating system
Environmental Rating	IP54 / NEMA 13
Cooling:	Dual continuous fans
Other Ports:	USB, Ethernet, RCA (optional)
Cameras:	Up to 2

Camera Module

Sensor:	768 pixels (H) x 494 pixels (V), single chip colour CCD
Size (Max):	60 mm (L) X 60 mm (W) x 100mm (H) / 2.4" (L) X 2.4" (W) x 3.9" (H)
Weight:	700 g / 24.7 oz.
Working Range:	Standoff: 150 - 400 mm / 5.9" - 15.7" Field of view: 12mm lens - [87 x 63] mm to [211 x 154] mm / [3.4" x 2.5"] to [8.3" x 6"]
Depth of Field:	115 mm @ 400 mm / 4.5" @ 15.7" (at max. resolution)
Dynamic Range:	60 dB
Camera Output:	S-Video (Y/C Output 0.75 p-p)
Lens Focus:	Manual
Splatter Protection:	Removable, protective glass cover
Auxiliary Lighting:	Solid state, 2x white, high intensity LEDs, adjustable brightness
Air Pressure:	Requires 3-4 bar / 45-60 psi
Camera Cooling:	Air filter + regulator with vortex cooler (optional supply)
Camera Mount:	Mounting from top or bottom via 2 X M3 screws
Camera Support:	Optional camera articulated arm with super clamp mount
Cable Lengths:	10 / 20 / 30 m

System Options

- Camera air cooling
- Camera articulated arm with super clamp mount
- Console wall mount
- Video output port for recording

Software Functions

- Crosshairs and target grid
- Output video port
- Manual light control from software
- Image rotation (0°, 90°, 180°, 270°)
- Image mirroring

Environmental Conditions

- Operating temp: < 55°C (131°F) if PC is actively cooled
- Storage temp: -20 to 60°C (-4 to 140°F)